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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-21-116 **Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-21-116** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-21-116** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-21-116** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-21-116** **Date: 24-10-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	22-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	674	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	666	20.0%	Satisfactory	Satisfactory

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-21-116** **Date: 10/11/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Customer ID	:	Drain Cocrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Cocrete	M20	03/11/2018	10/11/2018	150.52 X 150.46 X 150.49	22647	8.312	389.5	17.2	17.4
2	Drain Cocrete	M20	03/11/2018	10/11/2018	150.56 X 150.42 X 150.47	22647	8.331	398.6	17.6	
3	Drain Cocrete	M20	03/11/2018	10/11/2018	150.56 X 150.46 X 150.37	22653	8.345	394.2	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-21-116** **Date: 10/11/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.

Agency : Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73

Customer's Reference : EE/DD/WO/367/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-18

Customer ID : Drain Cocrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Cocrete	M20	03/11/2018	10/11/2018	150.44 X 150.56 X 150.47	22650	8.312	389.6	17.2	17.5
2	Drain Cocrete	M20	03/11/2018	10/11/2018	150.46 X 150.57 X 150.42	22655	8.331	398.7	17.6	
3	Drain Cocrete	M20	03/11/2018	10/11/2018	150.46 X 150.57 X 150.36	22655	8.345	403.3	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/11/2018

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Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 17th B Cross Near Geetha School in Prashanth Nagara in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri.Loki Venkatesh BK No.01, Sree Nilaya, Behind Ranga Mandra,Bagalagunte, Bengaluru-73
Customer's Reference	:	EE/DD/WO/367/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Customer ID	:	Drain Cocrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Cocrete	M20	03/11/2018	10/11/2018	150.56 X 150.45 X 150.38	22652	8.312	396.4	17.5	17.6
2	Drain Cocrete	M20	03/11/2018	10/11/2018	150.54 X 150.46 X 150.36	22650	8.331	398.6	17.6	
3	Drain Cocrete	M20	03/11/2018	10/11/2018	150.53 X 150.42 X 150.38	22643	8.345	403.0	17.8	

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